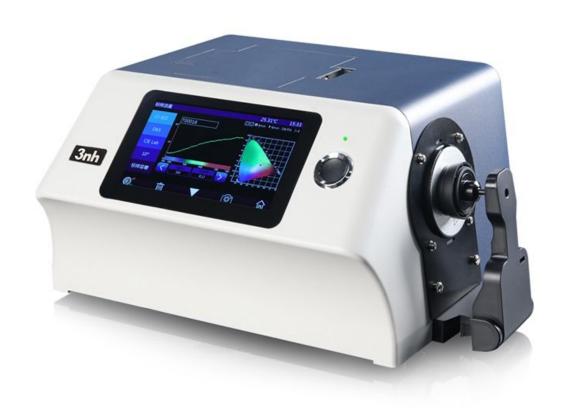
3nh[®]



YS6020 Xenon lamp Benchtop Spectrophotometer

YS6020 is a benchtop grating spectrophotometer which is developed by 3nh independently with independent intellectual property. YS6020 has many features, like 7 inches TFT capacitive touch screen display, full illuminants, reflective d/8 and transmissive d/0 geometry (including or excluding UV). With very stable and precise color measurement, large storage and powerful PC software all makes YS6020 ideal for color analysis within R&D and laboratory environments.

Features

- 1, High configuration of hardware: 7 inches TFT Color Capacitive Touch-screen Display; Bluetooth 2.1; Concave Grating.
- 2, Double Array 256 Image Element CMOS Sensor; Long life-span stable xenon lamp.
- 3, With reflective and transmissive spectrum, accurate Lab value, good to calculate color formula and do precise color transmission.
- 4, Auto identify measuring aperture. Freely switchable between 3 measuring apertures: Φ 25.4mm/8mm/4mm. Users also can customize apertures.
- 5, Built-in temperature sensor to monitor and compensate the measuring temperature to ensure the measurement more precision.
- 6, Wavelength range 360nm 780nm. Built-in 400nm cut off, more professional in UV measurement.
- 7, Independent light source detector, continuously monitor the condition of light sources to ensure the light source reliable.
- 8, Multiple measurement modes: Quality Management Mode, Sample Mode; Meet more users' requirement.
- 9,A variety of optional accessories: Reflection sample holding tool, transmission fixture, micro 4mm aperture transmission test components, instrument inversion test components, applicable to more working conditions.
- 10, Big capacity data storage, for 20000 pieces test result.
- 11, Built-in camera locating.
- 12, More powerful extended functions at the PC software.

Application Industry

YS6020 benchtop spectrophotometer is used to do precise color analysis and transmission in laboratories. It can be widely applied in different industries, such as plastics, electronics, paint and ink, printing, garments, leather, paper, auto, medical, cosmetics, food, science institutes, laboratories.

Model	YS6020(Pulsed xenon lamp)
Optical Geometry	Reflect: di:8°, de:8°(diffused illumination, 8-degree viewing angle); SCI (specular component included)/SCE (specular component excluded);Include UV / excluded UV light source; Transmittance: di:0°, de:0° (diffuse illumination: 0° viewing); SCI (specular component included)/SCE (specular component excluded);Include UV / excluded UV light source; Haze(ASTM D1003); Conforms to CIE No.15, GB/T 3978,GB 2893,GB/T 18833, ISO7724/1, ASTM E1164, DIN5033 Teil7
Integrating Sphere	Ф 154mm
Size	
Light Source Device	360nm-780nm Xenon Lamp, 400nm cut-off Xenon Lamp
Spectrophotometric Mode	Concave Grating
Sensor	256 Image Element Double Array CMOS Image Sensor
Wavelength Range	360-780nm
Wavelength Pitch	10nm
Semiband Width	5nm
Reflectance Range	0~200%
Measuring Aperture	Reflective: Φ30mm/Φ25.4mm, Φ10mm/Φ8mm, Φ6mm/Φ4mm; Transmissive: Φ30mm/Φ25.4mm; Remark: 1. Automatic identification of switch caliber 2. Customized Configuration caliber and lens position
Specular Component	Reflectance: SCI&SCE Transmittance: SCI&SCE
Color Space	CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter LAB, Munsell, s-RGB, HunterLab, DIN, βxy
Color Difference	Δ E*ab, Δ E*uv, Δ E*94, Δ E*cmc(2:1), Δ E*cmc(1:1), Δ E*00v, Δ E(Hunter),
Formula	DIN ΔΕ99
Colorimetric Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM E313, CIE/ISO), MI (Metamerism Index), Staining Fastness, Color Fastness, Color Strength, Opacity, Gardner Index, Pt-Co Index, 555 Index, Haze(ASTM D1003)
Observer Angle	2° & 10°
Illuminants	D65, A, C, UV, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12
Displayed Data	Spectrogram/Values, Chromaticity Values, Color Difference Values/Graph, Pass/Fail Result, Color Offset
Measuring Time	About 2.4s (Measure SCI & SCE about 5s)

Repeatability	Spectral reflectance: Φ25.4mm/SCI, Standard deviation within 0.07%	
	(400 nm to 700 nm: within 0.06%)	
	Chromaticity value: Φ 25.4mm/SCI, Standard deviation within Δ E*ab	
	0.015 (When a white calibration plate is measured 30 times at 5 second intervals after white calibration)	
	Spectral Transmittance: Φ25.4mm/SCI, Standard deviation within 0.07%	
	(400 nm to 700 nm: within 0.07%)	
	Chromaticity value: Φ 25.4mm/SCI, Standard deviation within Δ E*ab	
	0.018 (When a white calibration plate is measured 30 times at 5 second	
	intervals after white calibration)	
Inter-instrument Error	Φ25.4mm/SCI, Within ΔE*ab 0.15	
	(Average for 12 BCRA Series II color tiles)	
Size	370×300×200mm	
Weight	About 9.6kg	
Power Supply	DC 24V, 3A Power Adapter	
Light Source Device	5 years, more than 3 million times measurements.	
Life		
Display	7" TFT Capacitive Screen-touch Display	
Data Port	USB & Print serial port	
Data Storage	Standard 2000 Pcs, Sample 20000 Pcs	
Language	Simplified Chinese, Traditional Chinese, English,	
Working Environment	Temperature: 0~40°C; Humidity: 0~85% (No Condensation)	
Storage Environment	Temperature: -20~50°C; Humidity: 0~85% (No Condensation)	
Standard Accessory	Power Adapter, User Guide, CD Disk(PC Software), USB cable,	
	Standard Calibration Board, Black Calibration Cavity, Transmission black	
	baffle, Sample holder, 25.4 caliber, 8 caliber, 4 caliber,	
Optional Accessory	Micro-printer, Transmissive Test Clamp Component, Micro	
	Aperture(4mm) transmission test clamp component, Instrument inversion	
	components	
Notes: The specifications are subject to change without notice.		